



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No: CTCE/BBMP/KRIDL/W.No.04/CSR-01-240c/CEMENT/2016-17

Date: 12.01.2017

TEST REPORT ON CEMENT

* Customer	:	Asst. Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	Technical Manager, KRIDL, Bangalore.
* Name of Work	:	Construction of concrete drains & concrete roads at LBS Nagar & Allalasandra in Ward No.04, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/110/2016-17 Dated: 07.01.2017
* Sample ID	:	Cement - Sample 4
Sample Received on	:	07.01.2017
Period of Testing	:	07.01.2017 to 12.01.2017

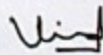
The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	30.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatelier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

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AE W4
1/14/1



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Job No.: CTCE/BBMP/KRIDL/W.No.04/CSR-01-240c/SAND-Gradation/2016-17

12.01.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: Asst. Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager, KRIDL, Bangalore.
* Name of Work	: Construction of concrete drains & concrete roads at LBS Nagar & Allalasandra in Ward No.04, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/110/2016-17 Dated: 07.01.2017
* Sample ID	: Fine Aggregates - Sample 4
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 07.01.2017
Date of Testing	: 12.01.2017

Total Wt. of Aggregates in gms = 1000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.10	90-100	90-100	90-100	95-100
2.36	77.90	60-95	75-100	85-100	95-100
1.18	55.90	30-70	55-90	75-100	90-100
600 Micron	23.30	15-34	35-59	60-79	80-100
300 Micron	13.30	5-20	8-30	12-40	15-50
150 Micron	6.10	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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12.01.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager, KRIDL, Bangalore.
* Name of Work	: Construction of concrete drains & concrete roads at LBS Nagar & Allalasandra in Ward No.04, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/110/2016-17 Dated: 07.01.2017
* Sample ID	: Coarse Aggregates (40mm) - Sample 4
Technical Reference	: IS : 2386 (Part 1) -1963 (RA-2016)
Sample Received on	: 07.01.2017
Date of Testing	: 12.01.2017

Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2016)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.40	95-100	85-100
20	32.40	30-70	0-20
10	12.40	10-35	0-5
4.75	3.90	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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12/1



Job No.: CTCE/BBMP/KRIDL/W.No.04/Steel/2016-17

12.01.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	: Asst. Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager, KRIDL, Bangalore.
* Name of work	: Construction of concrete drains & concrete roads at LBS Nagar & Allalasandra in Ward No.04, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/110/2016-17 Dated: 07.01.2017
* Samples ID	: 12 mm Bar
Technical Reference	: IS: 1786-2008
Date of Testing	: 12.01.2017



Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	515	517	13.45	O.K	O.K

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Job No.: CTCE/BBMP/KRIDL/W.No.04/CSR-01-240c/Cube/2016-17

13.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager, KRIDL, Bangalore.
* Name of the work	: Construction of concrete drains & concrete roads at LBS Nagar & Allalasandra in Ward No.04, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/110/2016-17 Dated: 07.01.2017
* Sample ID	: Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 13.01.2017



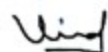
Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	16.01.2017	13.01.2017	8.158	474.9	21.11
2	16.01.2017	13.01.2017	8.229	510.3	22.68
3	16.01.2017	13.01.2017	8.372	528.7	23.50

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17.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager, KRIDL, Bangalore.
* Name of the work	: Construction of concrete drains & concrete roads at LBS Nagar & Allalasandra in Ward No.04, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/110/2016-17 Dated: 07.01.2017
* Sample ID	: Covering Slab Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 17.02.2017



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	20.01.2017	17.02.2017	8.189	480.3	21.35
2	20.01.2017	17.02.2017	8.268	493.6	21.94
3	20.01.2017	17.02.2017	8.307	513.4	22.82

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17/2



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21.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager, KRIDL, Bangalore.
* Name of the work	: Construction of concrete drains & concrete roads at LBS Nagar & Allalasandra in Ward No.04, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/110/2016-17 Dated: 07.01.2017
* Sample ID	: Pavement Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 21.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	24.01.2017	21.02.2017	8.135	475.5	21.13
2	24.01.2017	21.02.2017	8.266	493.2	21.92
3	24.01.2017	21.02.2017	8.379	513.7	22.83

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21/2



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* Customer	: Asst. Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
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* Reference	: BBMP/EE(YNK.D)/W.O/110/2016-17 Dated: 07.01.2017
* Sample ID	: Pavement Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 21.02.2017



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	24.01.2017	21.02.2017	8.225	482.3	21.44
2	24.01.2017	21.02.2017	8.337	509.6	22.65
3	24.01.2017	21.02.2017	8.407	528.7	23.50

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AEW9
10/2/17